



Aperture Science

by Arya Akhavan (November 2012)

Angles for R.I. = 2.020

49 + 10 girdles = 59 facets

2-fold, mirror-image symmetry

96 index

$L/W = 1.414$ $T/W = 0.807$ $U/W = 0.317$

$P/W = 0.615$ $C/W = 0.201$

$Vol./W^3 = 0.461$

PAVILION

P1	42.00°	03-09-15-21-27-33-39-45-51-57-63-69-75-81-87-93	Cut to centerpoint.
G1	90.00°	15-21-27-33-63-69-75-81	Set stone length.
G2	90.00°	96-48	Meet P1, G1 (set stone width)
P2	65.00°	96-48	Level girdle.
P3	41.00°	12-18-24-30-36-60-66-72-78-84	Meet P1, G1, G2, P2 (optional)

CROWN

C1	40.00°	96-48	Set girdle width.
C2	35.00°	15-21-27-33-63-69-75-81	Level girdle.
C3	33.76°	22-26-70-74	Meet G1, C2
C4	30.00°	01-47-49-95	Meet G1, G2, C1, C2
C5	27.59°	96-48	Meet C1, C4; C2, C3, C4
T	0.00°	Table	Meet C2, C3, C4, C5

For some reason, I associate this kind of outline with a camera, so I tried to get the finished reflection pattern to look like a camera and aperture. It worked pretty well, but for an even better camera "feel", don't cut P3.

Works in materials from feldspar to rutile (RI = 1.52 - 2.62) with no changes, but I like it in GGG.

Suggested length = 8-12 mm

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